

RELAY

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Classification:

- international: **H01H37/32; H01H61/00; H01H61/01; H01H61/013; H01H61/02; H01H37/00; H01H61/00; (IPC1-7): H01H61/00**

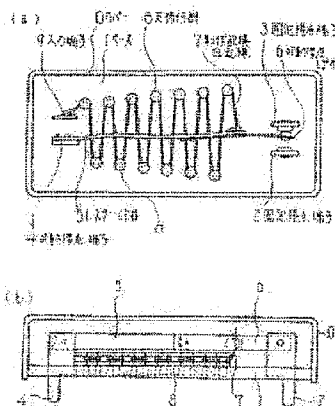
- European:

Application number: JP19890111511 19890428

Priority number(s): JP19890111511 19890428

Abstract of JP 2291631 (A)

PURPOSE: To enlarge shrinkage and expansion ratio per a unit length of a movable contact spring so as to enlarge its movable distance and achieve a compact structure and lightweight of a relay by installing a group of supports set winding ly on both sides of a shape-memory alloy wire and the movable contact spring as a contact operational system. **CONSTITUTION:** A shape-memory alloy wire 7 is set in a base 1 while guided along a group of supports 8 which are able to slide or rotate and set in the way like a cross stitch on both side of a movable contact spring 6 or a rest spring 5, and the wire 7 is connected to an input terminal as an end terminal of an introduction par from outside. A cover 10 is put on the base 1 in the way to form an aperture. Under the conditions of no application of electricity to an input terminal 9 and a movable contact terminal 4, the spring 6 is connected to a fixed contact terminal 2 side by assistance of the spring 5. When electric voltage is applied, the alloy wire 7 shrinks due to Joule's heat and exhibits tensile force to withdraw the tip of the spring 5, and consequently the spring 6 is connected to the terminal 3 side. When the electric voltage application is stopped, the alloy wire 7 is self-cooled and stopped shrinking.



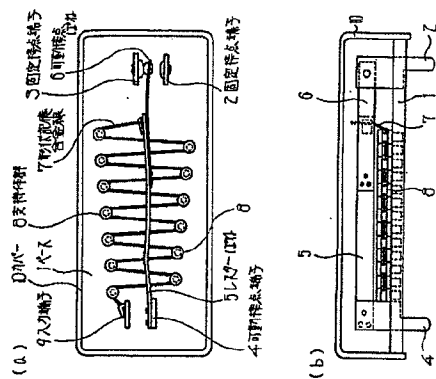
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ル系を有しないので安価且つ種差化を實現できる
という効果がある。

図面の簡単な説明

第1図(a)、(b)はそれぞれ本発明の一実施
例を示すリレーの平面図及び正面図である。

1…ベース、2、3…固定接点端子、4…可動
接点端子、5…レスターばね、6…可動接点ば
ね、7…形状記憶合金線、8…支持体(群)、9
…入力端子、10…カパー。



第1図

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